FIG. 1

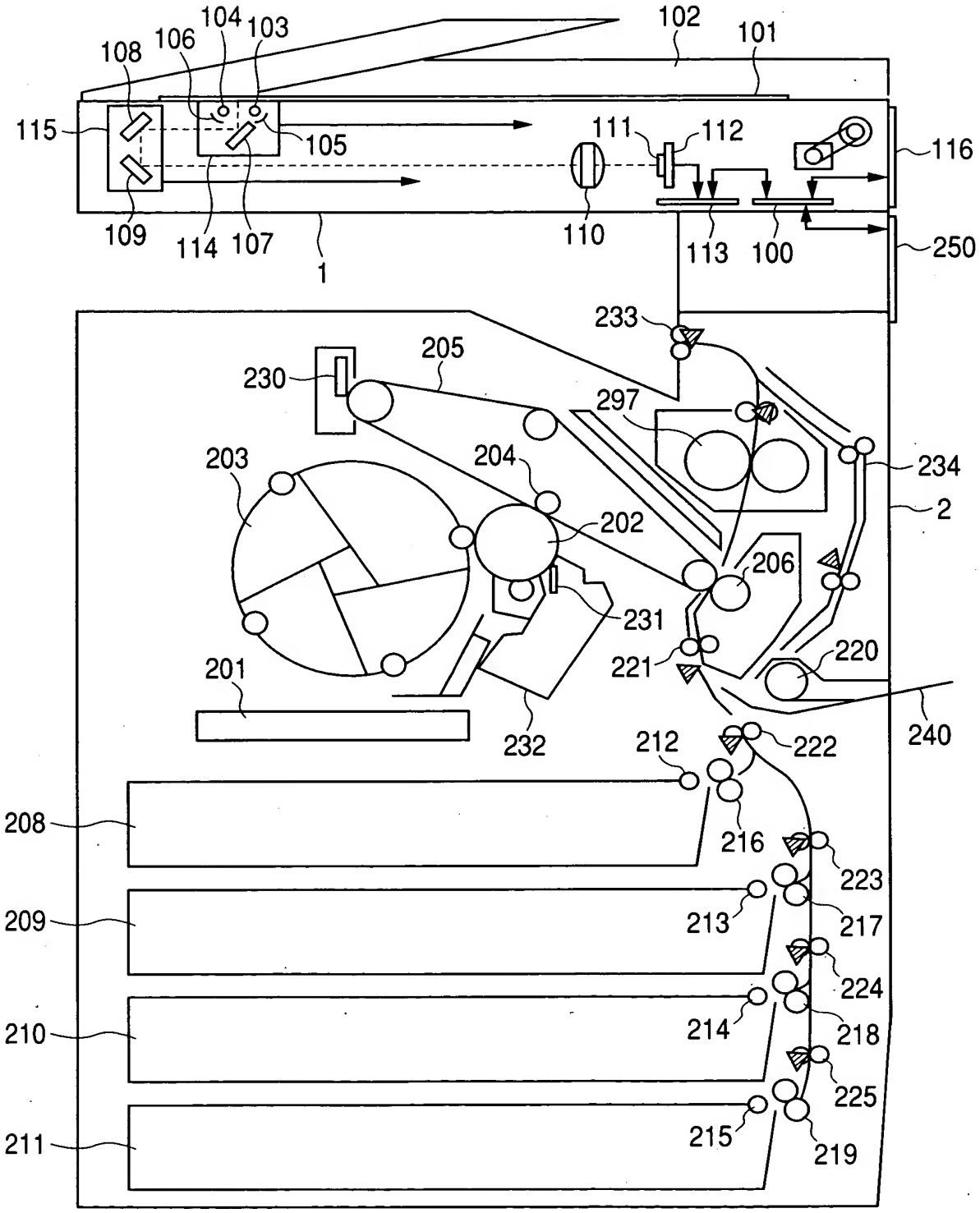

102
101
104
103
106
108
115
105
111
112
116
109
114
107
1
110
113
100
250
233
205
230
297
203
204
234
2
202
206
231
201
221
220
240
232
212
222
208
216
223
209
213
217
224
210
214
218
225
211
215
219

FIG. 2

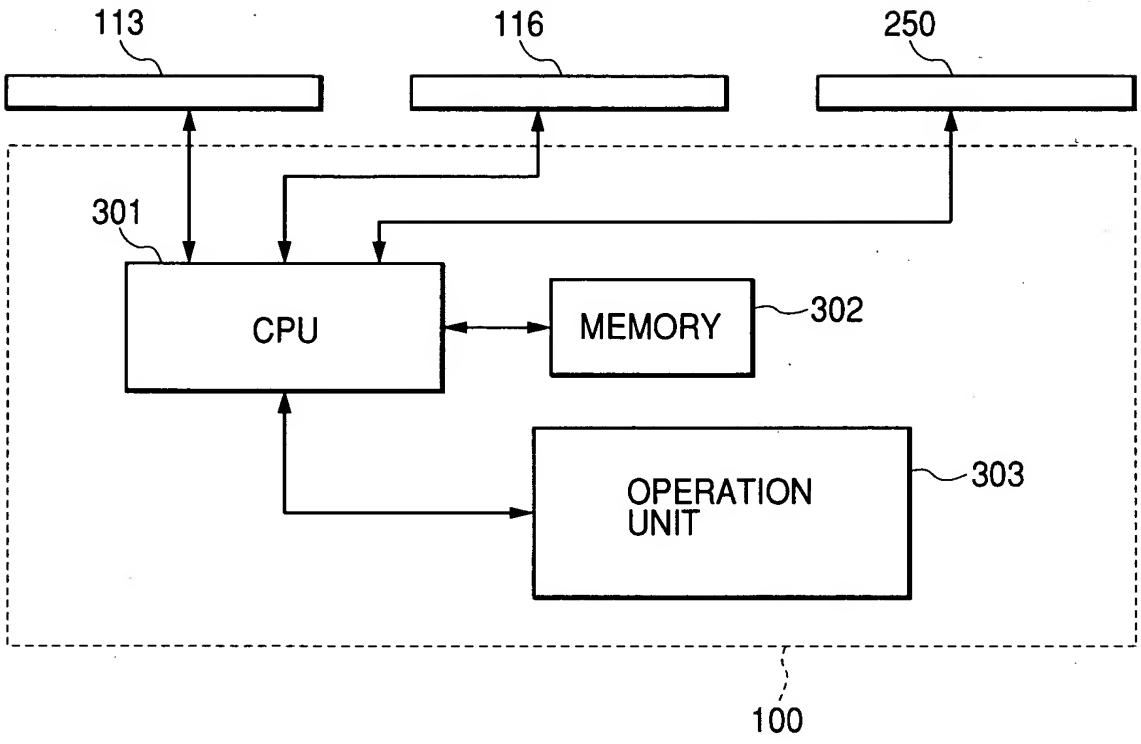


FIG. 3

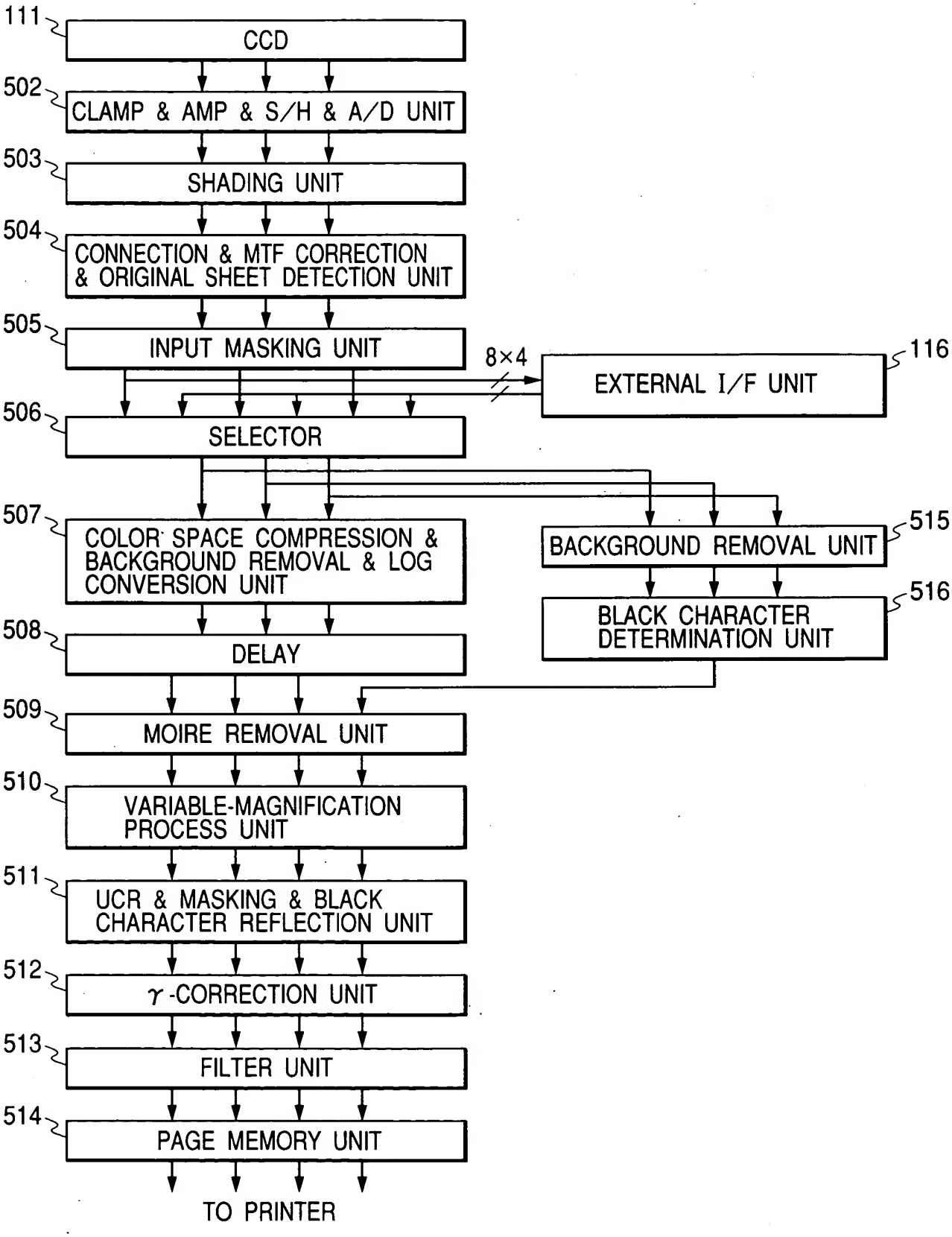

111
CCD
502
CLAMP & AMP & S/H & A/D UNIT
503
SHADING UNIT
504
CONNECTION & MTF CORRECTION & ORIGINAL SHEET DETECTION UNIT
505
INPUT MASKING UNIT
8×4
116
EXTERNAL I/F UNIT
506
SELECTOR
507
COLOR SPACE COMPRESSION & BACKGROUND REMOVAL & LOG CONVERSION UNIT
515
BACKGROUND REMOVAL UNIT
516
BLACK CHARACTER DETERMINATION UNIT
508
DELAY
509
MOIRE REMOVAL UNIT
510
VARIABLE-MAGNIFICATION PROCESS UNIT
511
UCR & MASKING & BLACK CHARACTER REFLECTION UNIT
512
γ-CORRECTION UNIT
513
FILTER UNIT
514
PAGE MEMORY UNIT
TO PRINTER

FIG. 4

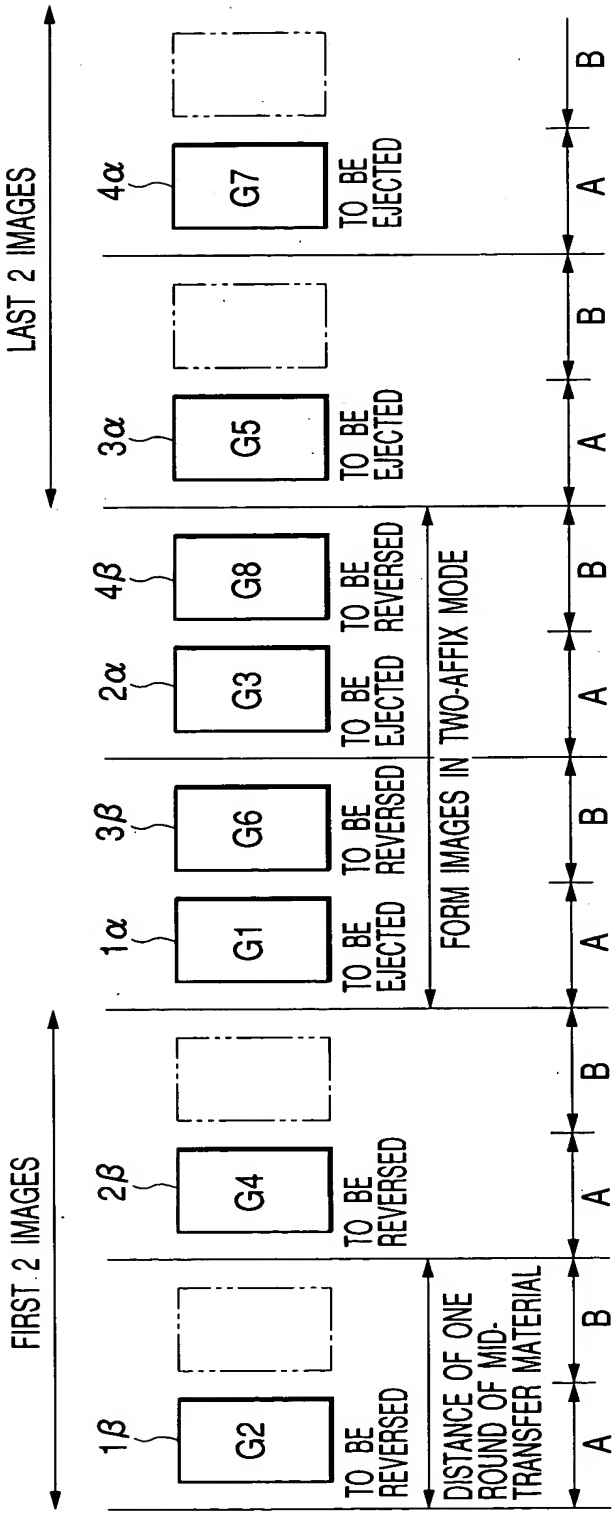

FIRST 2 IMAGES
LAST 2 IMAGES
1β
2β
1α
3β
2α
4β
3α
4α
G2
G4
G1
G6
G3
G8
G5
G7
TO BE REVERSED
TO BE EJECTED
TO BE REVERSED
TO BE EJECTED
TO BE REVERSED
TO BE EJECTED
TO BE EJECTED
DISTANCE OF ONE ROUND OF MID-TRANSFER MATERIAL
FORM IMAGES IN TWO-AFFIX MODE
A
B

FIG. 5

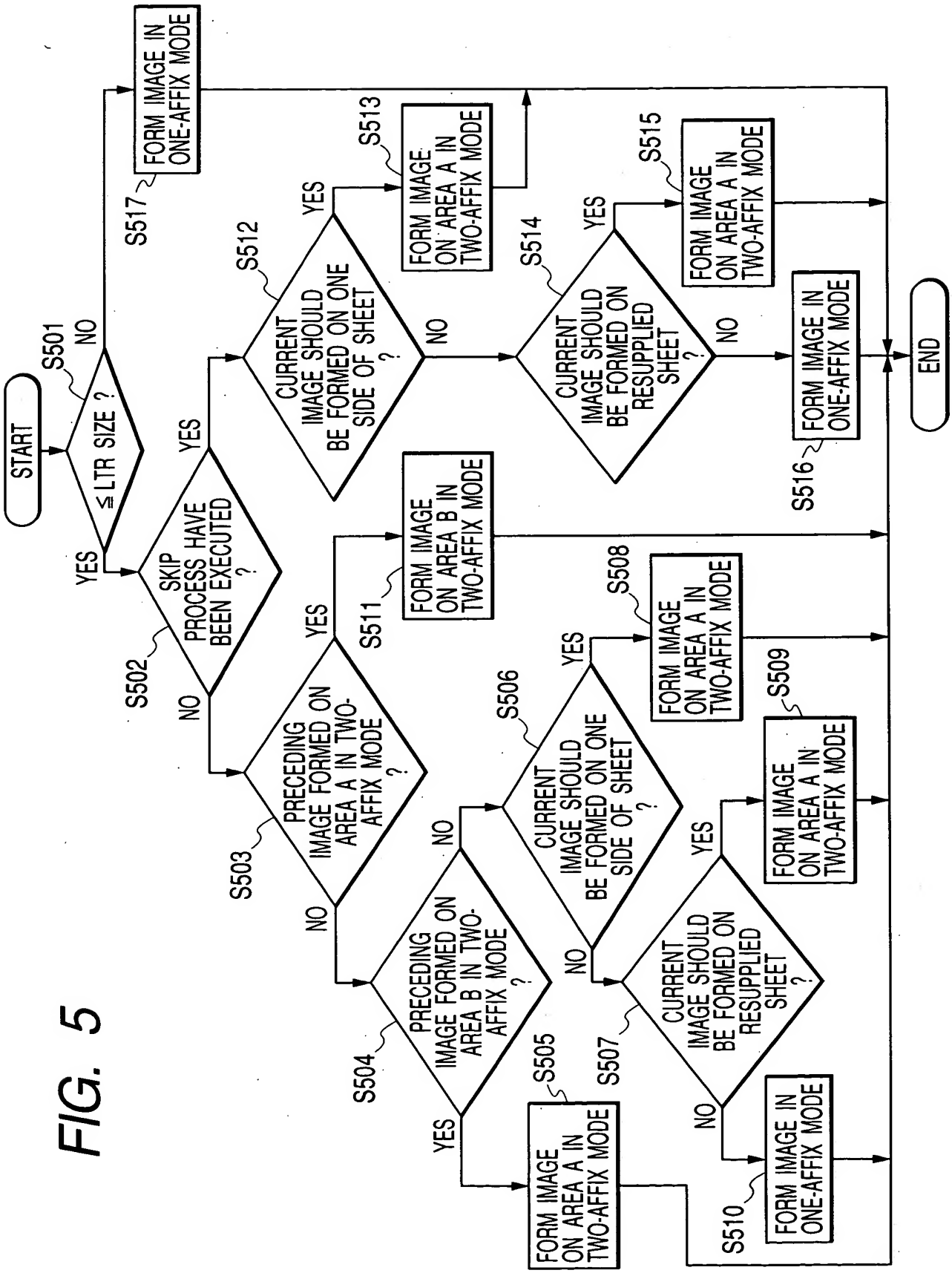

START
S501
≦ LTR SIZE ?
YES
NO
S502
SKIP PROCESS HAVE BEEN EXECUTED ?
YES
NO
S503
PRECEDING IMAGE FORMED ON AREA A IN TWO-AFFIX MODE ?
YES
NO
S504
PRECEDING IMAGE FORMED ON AREA B IN TWO-AFFIX MODE ?
YES
NO
S505
FORM IMAGE ON AREA A IN TWO-AFFIX MODE
S506
CURRENT IMAGE SHOULD BE FORMED ON ONE SIDE OF SHEET ?
YES
NO
S507
CURRENT IMAGE SHOULD BE FORMED ON RESUPPLIED SHEET ?
YES
NO
S508
FORM IMAGE ON AREA A IN TWO-AFFIX MODE
S509
FORM IMAGE ON AREA A IN TWO-AFFIX MODE
S510
FORM IMAGE IN ONE-AFFIX MODE
S511
FORM IMAGE ON AREA B IN TWO-AFFIX MODE
S512
CURRENT IMAGE SHOULD BE FORMED ON ONE SIDE OF SHEET ?
YES
NO
S513
FORM IMAGE ON AREA A IN TWO-AFFIX MODE
S514
CURRENT IMAGE SHOULD BE FORMED ON RESUPPLIED SHEET ?
YES
NO
S515
FORM IMAGE ON AREA A IN TWO-AFFIX MODE
S516
FORM IMAGE IN ONE-AFFIX MODE
S517
FORM IMAGE IN ONE-AFFIX MODE
END

FIG. 6

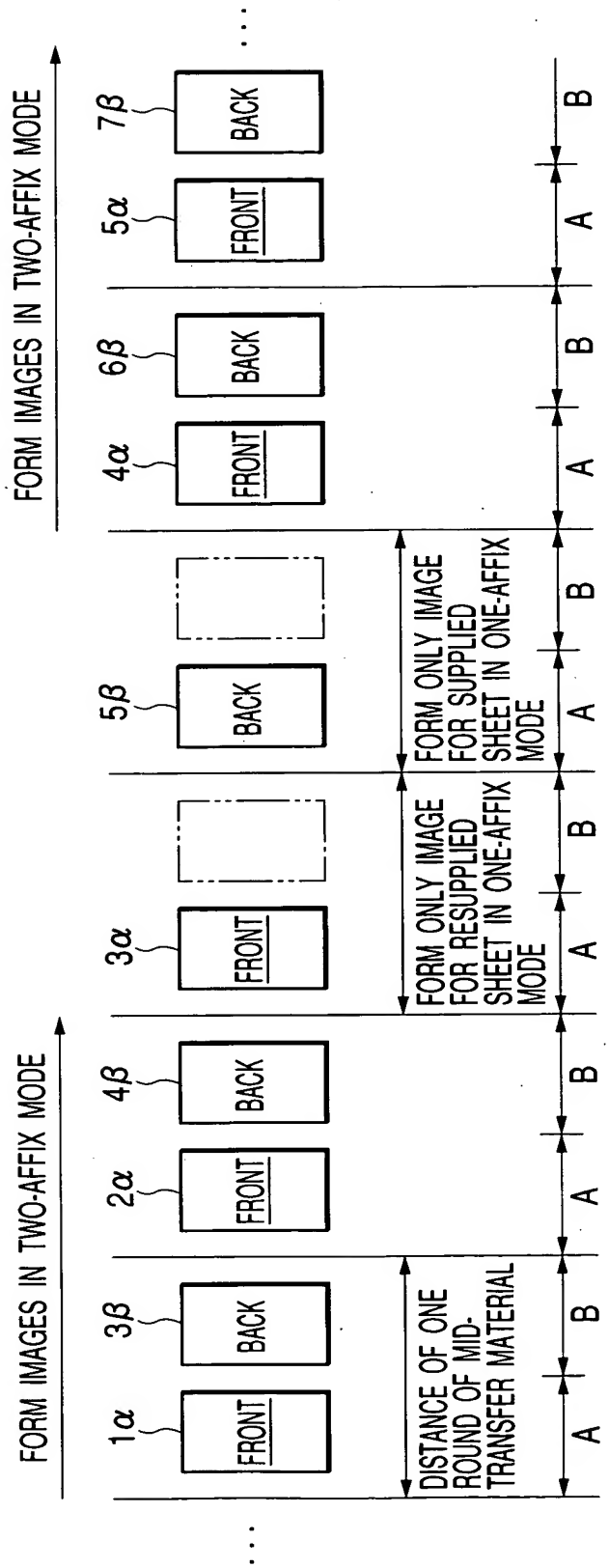
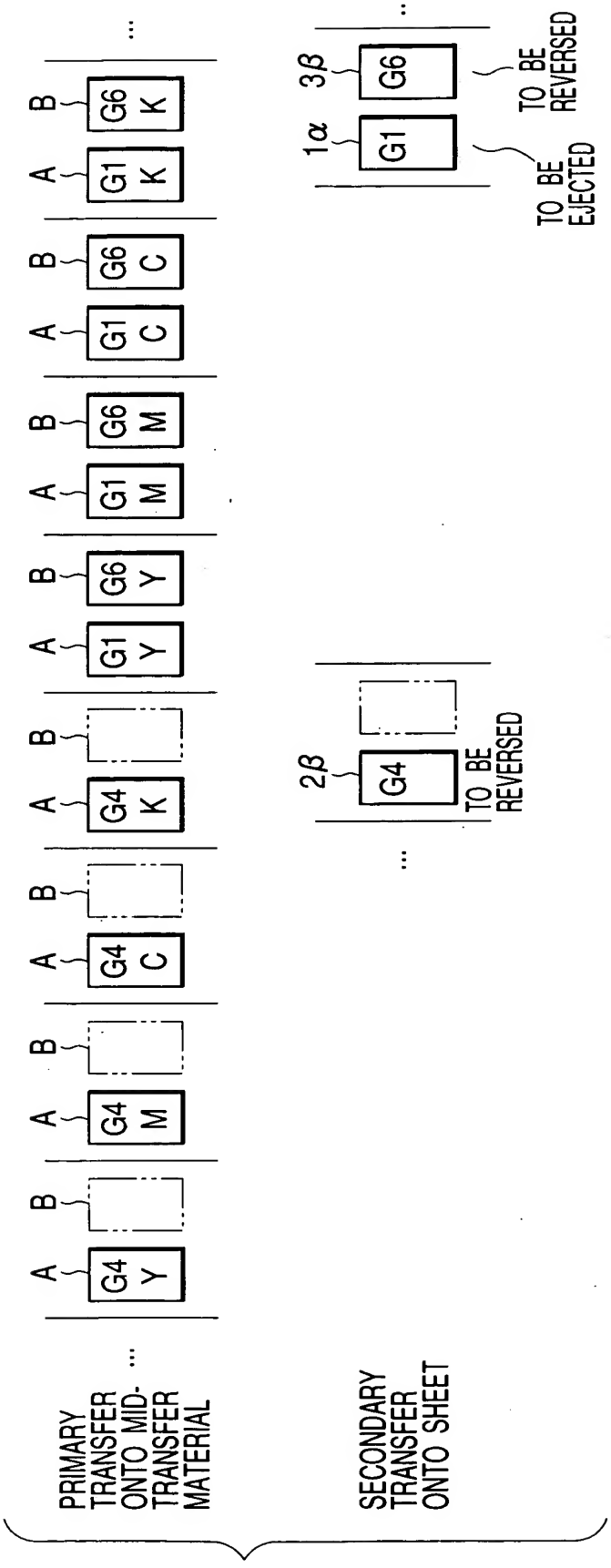

FORM IMAGES IN TWO-AFFIX MODE
1α
FRONT
3β
BACK
2α
FRONT
4β
BACK
3α
FRONT
5β
BACK
4α
FRONT
6β
BACK
5α
FRONT
7β
BACK
DISTANCE OF ONE ROUND OF MID-TRANSFER MATERIAL
FORM ONLY IMAGE FOR RESUPPLIED SHEET IN ONE-AFFIX MODE
FORM ONLY IMAGE FOR SUPPLIED SHEET IN ONE-AFFIX MODE
A
B
A
B
A
B
A
B
A
B
A
B
FORM IMAGES IN TWO-AFFIX MODE

FIG. 7


PRIMARY TRANSFER ONTO MID-TRANSFER MATERIAL
SECONDARY TRANSFER ONTO SHEET
A
B
G4 Y
G4 M
G4 C
G4 K
G1 Y
G6 Y
G1 M
G6 M
G1 C
G6 C
G1 K
G6 K
2β
TO BE REVERSED
1α
TO BE EJECTED
3β
TO BE REVERSED